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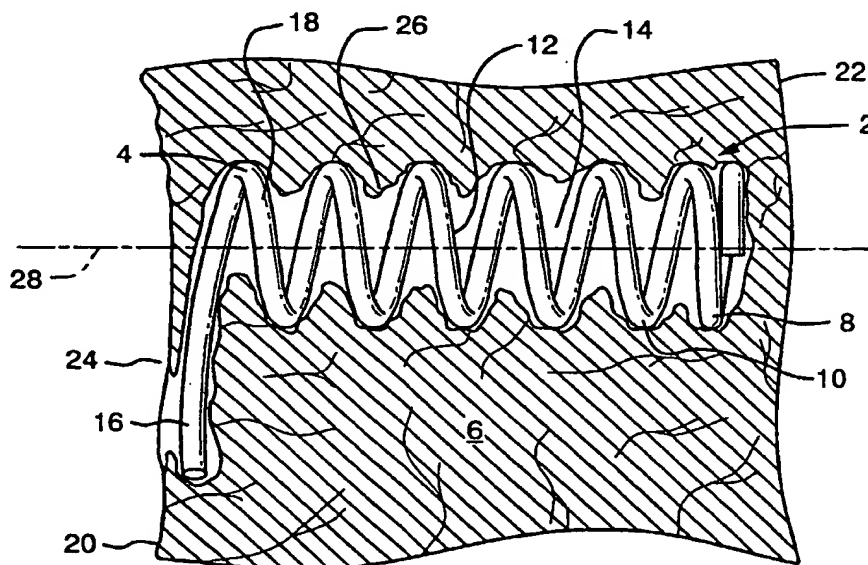
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(54) Title: IMPLANT ANCHOR SYSTEMS



(57) Abstract

The present invention provides anchoring mechanisms for tissue implants. The anchors (4) are integrated as part of the structure of the implant, and serve to resist migration of the implant from highly dynamic muscle tissue such as the myocardium of the heart. In implant devices configured as a flexible coil (8), various attributes of the coil may be altered to increase the anchoring capability of the device. The flexibility of the device may be increased to resist migration by changing the coil filament thickness, and pitch or filament material. Alternatively, the end coil may be altered to have a broader cross-sectional profile in engagement with the tissue or may include an anchoring barb. Additionally, methods of implanting a tissue implant device are provided.

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/13118**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) :A61B 17/08

US CL :606/213

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 606/108, 185, 191, 200, 213; 607/116

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EAST

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4,904,264 A (SCHEUNEMANN) 27 February 1990, Fig. 7, and col.7 lines 10-15.	1-16, 18-49
X,P	US 6,053,924 A (HUSSEIN) 25 April 2000, Figs. 1, 4, 5, and 7.	1-11, 13-46, 49
X — Y	US 5,366,493 A (SCHEINER et al.) 22 November 1994, Fig.1.	1-49
X,P — Y,P	US 5,980,514 A (KUPIECKI et al.) 09 November 1999, Figs. 2 and 4.	1-49

☐ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

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